

# Sequence Listing

<110> Baker, Kevin  
 Botstein, David  
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 Ferrara, Napoleone  
 Filvaroff, Ellen  
 Gerritsen, Mary  
 Goddard, Audrey  
 Godowski, Paul  
 Grimaldi, Christopher  
 Gurney, Austin  
 Hillan, Kenneth  
 Kljavin, Ivar  
 Napier, Mary  
 Roy, Margaret  
 Tumas, Daniel  
 Wood, William

<120> SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ACIDS ENCODING THE SAME

<130> P2548P1C1

<150> 60/067,411

<151> December 3, 1997

<150> 60/069,334

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Table 1. Demographic characteristics of the study population	
Age (years)	50.0 ± 10.0
Gender	
Male	50.0%
Female	50.0%
Education (years)	12.0 ± 2.0
Marital status	
Married	80.0%
Single	20.0%
Occupation	
Professional	30.0%
Managerial	20.0%
Technical	10.0%
Service	20.0%
Unemployed	20.0%
Income (USD/month)	1000.0 ± 500.0
Health status	
Good	70.0%
Fair	30.0%

<151> February 22, 2000

<150> PCT/US00/05841

<151> March 2, 2000

<150> PCT/US00/08439

<151> March 30, 2000

<150> PCT/US00/14042

<151> May 22, 2000

<150> PCT/US00/20710

<151> July 28, 2000

<150> PCT/US00/32678

<151> December 1, 2000

<150> PCT/US01/06520

<151> February 28, 2001

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<213> Homo Sapien

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Ala Lys Pro Gly Gly Pro Gly Arg Pro Arg Asp Pro Asn Thr Cys	695	700	705
Phe Phe Glu Gly Gln Gln Arg Pro His Gly Ala Arg Trp Ala Pro	710	715	720
Asn Tyr Asp Pro Leu Cys Ser Leu Cys Thr Cys Gln Arg Arg Thr	725	730	735
Val Ile Cys Asp Pro Val Val Cys Pro Pro Pro Ser Cys Pro His	740	745	750
Pro Val Gln Ala Pro Asp Gln Cys Cys Pro Val Cys Pro Glu Lys	755	760	765
Gln Asp Val Arg Asp Leu Pro Gly Leu Pro Arg Ser Arg Asp Pro	770	775	780
Gly Glu Gly Cys Tyr Phe Asp Gly Asp Arg Ser Trp Arg Ala Ala	785	790	795
Gly Thr Arg Trp His Pro Val Val Pro Pro Phe Gly Leu Ile Lys	800	805	810
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Val Asn Pro Thr Asp Cys Cys Lys Gln Cys Pro Val Gly Ser Gly	845	850	855
Ala His Pro Gln Leu Gly Asp Pro Met Gln Ala Asp Gly Pro Arg	860	865	870
Gly Cys Arg Phe Ala Gly Gln Trp Phe Pro Glu Ser Gln Ser Trp	875	880	885
His Pro Ser Val Pro Pro Phe Gly Glu Met Ser Cys Ile Thr Cys	890	895	900
Arg Cys Gly Ala Gly Val Pro His Cys Glu Arg Asp Asp Cys Ser	905	910	915
Leu Pro Leu Ser Cys Gly Ser Gly Lys Glu Ser Arg Cys Cys Ser	920	925	930
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Variable	Mean	SD	Min	Max
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Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	10	25
Health status	0.7	0.4	0	1
Smoking status	0.3	0.5	0	1
Alcohol consumption	0.2	0.4	0	1
Exercise frequency	0.4	0.5	0	1
Stress level	0.6	0.5	0	1
Sleep quality	0.5	0.5	0	1
Work satisfaction	0.4	0.5	0	1
Life satisfaction	0.5	0.5	0	1
Depression score	10.5	5.2	0	20
Anxiety score	8.5	4.5	0	20
Quality of life score	12.5	6.5	0	25
Healthcare utilization	0.3	0.5	0	1
Health insurance status	0.8	0.4	0	1
Chronic disease status	0.2	0.4	0	1
Family size	2.5	1.2	1	5
Religious beliefs	0.5	0.5	0	1
Cultural background	0.5	0.5	0	1
Language spoken at home	0.5	0.5	0	1
Migration status	0.3	0.5	0	1
Urban vs. rural residence	0.6	0.5	0	1
Proximity to healthcare facilities	0.4	0.5	0	1
Healthcare access barriers	0.2	0.4	0	1
Healthcare costs	0.3	0.5	0	1
Healthcare quality	0.4	0.5	0	1
Healthcare satisfaction	0.5	0.5	0	1
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Healthcare utilization facilitators	0.3	0.5	0	1
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Healthcare utilization facilitators	0.3	0.5	0	1
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Ser Ser Pro Cys	Gln Asn Asn Gly Thr	Cys Tyr Val Asp Gly Val	440	445	450
His Phe Thr Cys	Asn Cys Ser Pro Gly	Phe Thr Gly Pro Thr Cys	455	460	465
Ala Gln Leu Ile	Asp Phe Cys Ala Leu	Ser Pro Cys Ala His Gly	470	475	480
Thr Cys Arg Ser	Val Gly Thr Ser Tyr	Lys Cys Leu Cys Asp Pro	485	490	495
Gly Tyr His Gly	Leu Tyr Cys Glu Glu	Glu Tyr Asn Glu Cys Leu	500	505	510
Ser Ala Pro Cys	Leu Asn Ala Ala Thr	Cys Arg Asp Leu Val Asn	515	520	525
Gly Tyr Glu Cys	Val Cys Leu Ala Glu	Tyr Lys Gly Thr His Cys	530	535	540
Glu Leu Tyr Lys	Asp Pro Cys Ala Asn	Val Ser Cys Leu Asn Gly	545	550	555
Ala Thr Cys Asp	Ser Asp Gly Leu Asn	Gly Thr Cys Ile Cys Ala	560	565	570
Pro Gly Phe Thr	Gly Glu Glu Cys Asp	Ile Asp Ile Asn Glu Cys	575	580	585
Asp Ser Asn Pro	Cys His His Gly Gly	Ser Cys Leu Asp Gln Pro	590	595	600
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Cys Glu Ile His	Leu Gln Trp Lys Ser	Gly His Met Ala Glu Ser	620	625	630
Leu Thr Asn Met	Pro Arg His Ser Leu	Tyr Ile Ile Ile Gly Ala	635	640	645
Leu Cys Val Ala	Phe Ile Leu Met Leu	Ile Ile Leu Ile Val Gly	650	655	660
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Ala Tyr Glu Glu	Phe Tyr Asn Cys Arg	Ser Ile Asp Ser Glu Phe	680	685	690
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Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	5	35
Health status	0.8	0.4	0	1
Stress level	2.5	1.2	1	4
Life satisfaction	3.2	1.5	1	5
Work engagement	4.1	1.8	1	6
Organizational commitment	3.8	1.6	1	5
Turnover intention	1.2	0.8	0	3
Job performance	2.8	1.1	1	4
Team cohesion	3.5	1.4	1	5
Leadership effectiveness	3.1	1.3	1	5
Employee well-being	3.9	1.7	1	6
Organizational climate	3.3	1.5	1	5
Work-life balance	3.0	1.4	1	5
Job satisfaction	3.6	1.6	1	5
Employee engagement	4.0	1.7	1	6
Organizational trust	3.4	1.5	1	5
Employee loyalty	3.7	1.6	1	5
Job design	3.2	1.4	1	5
Work environment	3.1	1.3	1	5
Employee motivation	3.8	1.7	1	6
Organizational culture	3.5	1.5	1	5
Work-life balance	3.0	1.4	1	5
Job satisfaction	3.6	1.6	1	5
Employee engagement	4.0	1.7	1	6
Organizational trust	3.4	1.5	1	5
Employee loyalty	3.7	1.6	1	5
Job design	3.2	1.4	1	5
Work environment	3.1	1.3	1	5
Employee motivation	3.8	1.7	1	6
Organizational culture	3.5	1.5	1	5

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<213> Homo Sapien

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				185					190					195	
Glu	Met	Asn	Arg	Leu	Gly	Met	Met	Val	Asp	Leu	Ser	His	Val	Ser	
				200					205					210	
Asp	Ala	Val	Ala	Arg	Arg	Ala	Leu	Glu	Val	Ser	Gln	Ala	Pro	Val	
				215					220					225	
Ile	Phe	Ser	His	Ser	Ala	Ala	Arg	Gly	Val	Cys	Asn	Ser	Ala	Arg	
				230					235					240	
Asn	Val	Pro	Asp	Asp	Ile	Leu	Gln	Leu	Leu	Lys	Lys	Asn	Gly	Gly	
				245					250					255	
Val	Val	Met	Val	Ser	Leu	Ser	Met	Gly	Val	Ile	Gln	Cys	Asn	Pro	
				260					265					270	
Ser	Ala	Asn	Val	Ser	Thr	Val	Ala	Asp	His	Phe	Asp	His	Ile	Lys	
				275					280					285	
Ala	Val	Ile	Gly	Ser	Lys	Phe	Ile	Gly	Ile	Gly	Gly	Asp	Tyr	Asp	
				290					295					300	
Gly	Ala	Gly	Lys	Phe	Pro	Gln	Gly	Leu	Glu	Asp	Val	Ser	Thr	Tyr	
				305					310					315	
Pro	Val	Leu	Ile	Glu	Glu	Leu	Leu	Ser	Arg	Gly	Trp	Ser	Glu	Glu	
				320					325					330	
Glu	Leu	Gln	Gly	Val	Leu	Arg	Gly	Asn	Leu	Leu	Arg	Val	Phe	Arg	
				335					340					345	
Gln	Val	Glu	Lys	Val	Gln	Glu	Glu	Asn	Lys	Trp	Gln	Ser	Pro	Leu	
				350					355					360	
Glu	Asp	Lys	Phe	Pro	Asp	Glu	Gln	Leu	Ser	Ser	Ser	Cys	His	Ser	
				365					370					375	
Asp	Leu	Ser	Arg	Leu	Arg	Gln	Arg	Gln	Ser	Leu	Thr	Ser	Gly	Gln	
				380					385					390	
Glu	Leu	Thr	Glu	Ile	Pro	Ile	His	Trp	Thr	Ala	Lys	Leu	Pro	Ala	
				395					400					405	
Lys	Trp	Ser	Val	Ser	Glu	Ser	Ser	Pro	His	Met	Ala	Pro	Val	Leu	
				410					415					420	
Ala	Val	Val	Ala	Thr	Phe	Pro	Val	Leu	Ile	Leu	Trp	Leu			
				425					430						

&lt;210&gt; 25

&lt;211&gt; 22

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic oligonucleotide probe

<400> 25  
agttctgggc agcctatgtg cc 22

<210> 26  
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<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide probe

<400> 26  
cgtgatggcg tctttgtcca tggg 24

<210> 27  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide probe

<400> 27  
ctccaccaat cccgatgaac ttgg 24

<210> 28  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
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<400> 28  
gagcagattg acctcatagc ccgcattgtt gcctcctatt ctgagctgga 50

<210> 29  
<211> 1416  
<212> DNA  
<213> Homo Sapien

<400> 29  
aaaacctata aatattccgg attattcata ccgtcccacc atcgggcgcg 50  
gatccgcggc cggaattct aaaccaacat gccgggcacc tacgctcct 100  
cgaccacact cagtagtccc agcaccagg gcctgcaaga gcaggcacgg 150  
gccctgatgc gggacttccc gctcgtggac ggccacaacg acctgccct 200  
ggtcctaagg caggtttacc agaaagggt acaggatgtt aacctgcgca 250  
atttcagcta cggccagacc agcctggaca ggcttagaga tggcctcgtg 300  
ggcgcccagt tctggtcagc ctatgtgcca tgccagacc aggaccggga 350  
tgccctgcgc ctcacctgg agcagattga cctcatagc cgcattgtgtg 400



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cctcctatttc tgagctggag cttgtgacct cggctaaaagc tctgaacgac 450
actcagaaat tggcctgcct catcgggtgta gaggggtggcc actcgcctgga 500
caatagcctc tccatcttac gtaccttcta catgctggga gtgcgctacc 550
tgacgctcac ccacacctgc aacacaccct gggcagagag ctccgctaag 600
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gtgatcttct cccactcggc tgcccgggggt gtgtgcaaca gtgctcggaa 800
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cgtggctgga gtgaggaaga gcttcagggt gtccttcgtg gaaacctgct 1100
gcgggtcttc agacaagtgg aaaaggtaca ggaagaaaac aaatggcaaa 1150
gcccttgga ggacaagttc ccggatgagc agctgagcag ttcttgccac 1200
tccgacctct cagctctgcg tcagagacag agtctgactt caggccagga 1250
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cagtctcaga gtctctcccc caccctgaca aaactcacac atgcccaccg 1350
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<210> 30

<211> 446

<212> PRT

<213> Homo Sapien

<400> 30

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20 25 30

Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu Arg Gln  
35 40 45

Val Tyr Gln Lys Gly Leu Gln Asp Val Asn Leu Arg Asn Phe Ser

				50					55					60
Tyr	Gly	Gln	Thr	Ser 65	Leu	Asp	Arg	Leu	Arg 70	Asp	Gly	Leu	Val	Gly 75
Ala	Gln	Phe	Trp	Ser 80	Ala	Tyr	Val	Pro	Cys 85	Gln	Thr	Gln	Asp	Arg 90
Asp	Ala	Leu	Arg	Leu 95	Thr	Leu	Glu	Gln	Ile 100	Asp	Leu	Ile	Arg	Arg 105
Met	Cys	Ala	Ser	Tyr 110	Ser	Glu	Leu	Glu	Leu 115	Val	Thr	Ser	Ala	Lys 120
Ala	Leu	Asn	Asp	Thr 125	Gln	Lys	Leu	Ala	Cys 130	Leu	Ile	Gly	Val	Glu 135
Gly	Gly	His	Ser	Leu 140	Asp	Asn	Ser	Leu	Ser 145	Ile	Leu	Arg	Thr	Phe 150
Tyr	Met	Leu	Gly	Val 155	Arg	Tyr	Leu	Thr	Leu 160	Thr	His	Thr	Cys	Asn 165
Thr	Pro	Trp	Ala	Glu 170	Ser	Ser	Ala	Lys	Gly 175	Val	His	Ser	Phe	Tyr 180
Asn	Asn	Ile	Ser	Gly 185	Leu	Thr	Asp	Phe	Gly 190	Glu	Lys	Val	Val	Ala 195
Glu	Met	Asn	Arg	Leu 200	Gly	Met	Met	Val	Asp 205	Leu	Ser	His	Val	Ser 210
Asp	Ala	Val	Ala	Arg 215	Arg	Ala	Leu	Glu	Val 220	Ser	Gln	Ala	Pro	Val 225
Ile	Phe	Ser	His	Ser 230	Ala	Ala	Arg	Gly	Val 235	Cys	Asn	Ser	Ala	Arg 240
Asn	Val	Pro	Asp	Asp 245	Ile	Leu	Gln	Leu	Leu 250	Lys	Lys	Asn	Gly	Gly 255
Val	Val	Met	Val	Ser 260	Leu	Ser	Met	Gly	Val 265	Ile	Gln	Cys	Asn	Pro 270
Ser	Ala	Asn	Val	Ser 275	Thr	Val	Ala	Asp	His 280	Phe	Asp	His	Ile	Lys 285
Ala	Val	Ile	Gly	Ser 290	Lys	Phe	Ile	Gly	Ile 295	Gly	Gly	Asp	Tyr	Asp 300
Gly	Ala	Gly	Lys	Phe 305	Pro	Gln	Gly	Leu	Glu 310	Asp	Val	Ser	Thr	Tyr 315
Pro	Val	Leu	Ile	Glu 320	Glu	Leu	Leu	Ser	Arg 325	Gly	Trp	Ser	Glu	Glu 330
Glu	Leu	Gln	Gly	Val 335	Leu	Arg	Gly	Asn	Leu 340	Leu	Arg	Val	Phe	Arg 345

Gln Val Glu Lys Val Gln Glu Glu Asn Lys Trp Gln Ser Pro Leu	350	355	360
Glu Asp Lys Phe Pro Asp Glu Gln Leu Ser Ser Ser Cys His Ser	365	370	375
Asp Leu Ser Arg Leu Arg Gln Arg Gln Ser Leu Thr Ser Gly Gln	380	385	390
Glu Leu Thr Glu Ile Pro Ile His Trp Thr Ala Lys Leu Pro Ala	395	400	405
Lys Trp Ser Val Ser Glu Ser Ser Pro His Pro Asp Lys Thr His	410	415	420
Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser	425	430	435
Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr	440	445	

<210> 31  
 <211> 1790  
 <212> DNA  
 <213> Homo Sapien

<400> 31  
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 gcgtcccgcg cctgcgcca ccgcgcgca gccgcagccc gccgcgcgcc 100  
 ccgggcagcg ccggccccat gccgcgcggc cgccggggcc ccgcgcgcca 150  
 atccgcgcgg cggcgcgcgc cgttgctgcc cctgctgctg ctgctctgcg 200  
 tctcggggc gccgcgagcc ggatcaggag ccacacagc tgtgatcagt 250  
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 agtgcacgga gaccacaccg gagccaccgc cgaggggctc tactggaccc 350  
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atatacctgga tgtggtgacc acggaccccc cgcccacgt gcacgtgagc 850  
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 gtgagtggag ccaccccaca gccgcctcca ctccccgcag tgagcgcccg 1150  
 ggcccggggc gcggggcggt cgaaccgcgg ggccggagagc cgagctcggg 1200  
 gccggtgcgg cgcgagctca agcagttcct gggctggctc aagaagcacg 1250  
 cgtactgctc caacctcagc ttccgcctct acgaccagtg gcgagcctgg 1300  
 atgcagaagt cgcacaagac ccgcaaccag gacgagggga tctgccctc 1350  
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 tggttgagtt gctagaacc cctgccaggg ctgggggtga gaaggggagt 1650  
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 tgagctatatt aggtgctgtg attgtgaaaa aaaaaaaaaa aaaaaaaaaa 1750  
 aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa 1790

<210> 32  
 <211> 422  
 <212> PRT  
 <213> Homo Sapien

<400> 32  
 Met Pro Ala Gly Arg Arg Gly Pro Ala Ala Gln Ser Ala Arg Arg  
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 Pro Pro Pro Leu Leu Pro Leu Leu Leu Leu Leu Cys Val Leu Gly  
 20 25 30  
 Ala Pro Arg Ala Gly Ser Gly Ala His Thr Ala Val Ile Ser Pro  
 35 40 45  
 Gln Asp Pro Thr Leu Leu Ile Gly Ser Ser Leu Leu Ala Thr Cys  
 50 55 60

Ser Val His Gly Asp	Pro Pro Gly Ala	Thr Ala Glu Gly Leu Tyr	65	70	75
Trp Thr Leu Asn Gly	Arg Arg Leu Pro	Pro Glu Leu Ser Arg Val	80	85	90
Leu Asn Ala Ser Thr	Leu Ala Leu Ala	Leu Ala Asn Leu Asn Gly	95	100	105
Ser Arg Gln Arg Ser	Gly Asp Asn Leu	Val Cys His Ala Arg Asp	110	115	120
Gly Ser Ile Leu Ala	Gly Ser Cys Leu	Tyr Val Gly Leu Pro Pro	125	130	135
Glu Lys Pro Val Asn	Ile Ser Cys Trp	Ser Lys Asn Met Lys Asp	140	145	150
Leu Thr Cys Arg Trp	Thr Pro Gly Ala	His Gly Glu Thr Phe Leu	155	160	165
His Thr Asn Tyr Ser	Leu Lys Tyr Lys	Leu Arg Trp Tyr Gly Gln	170	175	180
Asp Asn Thr Cys Glu	Glu Tyr His Thr	Val Gly Pro His Ser Cys	185	190	195
His Ile Pro Lys Asp	Leu Ala Leu Phe	Thr Pro Tyr Glu Ile Trp	200	205	210
Val Glu Ala Thr Asn	Arg Leu Gly Ser	Ala Arg Ser Asp Val Leu	215	220	225
Thr Leu Asp Ile Leu	Asp Val Val Thr	Thr Asp Pro Pro Pro Asp	230	235	240
Val His Val Ser Arg	Val Gly Gly Leu	Glu Asp Gln Leu Ser Val	245	250	255
Arg Trp Val Ser Pro	Pro Ala Leu Lys	Asp Phe Leu Phe Gln Ala	260	265	270
Lys Tyr Gln Ile Arg	Tyr Arg Val Glu	Asp Ser Val Asp Trp Lys	275	280	285
Val Val Asp Asp Val	Ser Asn Gln Thr	Ser Cys Arg Leu Ala Gly	290	295	300
Leu Lys Pro Gly Thr	Val Tyr Phe Val	Gln Val Arg Cys Asn Pro	305	310	315
Phe Gly Ile Tyr Gly	Ser Lys Lys Ala	Gly Ile Trp Ser Glu Trp	320	325	330
Ser His Pro Thr Ala	Ala Ser Thr Pro	Arg Ser Glu Arg Pro Gly	335	340	345
Pro Gly Gly Gly Ala	Cys Glu Pro Arg	Gly Gly Glu Pro Ser Ser			

350	355	360
Gly Pro Val Arg Arg Glu Leu Lys Gln Phe Leu Gly Trp Leu Lys		
365	370	375
Lys His Ala Tyr Cys Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln		
380	385	390
Trp Arg Ala Trp Met Gln Lys Ser His Lys Thr Arg Asn Gln Asp		
395	400	405
Glu Gly Ile Leu Pro Ser Gly Arg Arg Gly Thr Ala Arg Gly Pro		
410	415	420

Ala Arg

<210> 33  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 33  
 cccgcccgcac gtgcacgtga gcc 23

<210> 34  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 34  
 tgagccagcc caggaactgc ttg 23

<210> 35  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 35  
 caagtgcgct gcaacccctt tggcatctat ggctccaaga aagccgggat 50

<210> 36  
 <211> 1771  
 <212> DNA  
 <213> Homo Sapien

<400> 36  
 cccacgcgtc cgctgggtgtt agatcgagca accctctaaa agcagtttag 50

agtggtaaaa aaaaaaaaaa acacacccaaa cgctcgcagc cacaaaagg 100  
 atgaaatttc ttctggacat cctcctgctt ctcccggtac tgatcgtctg 150  
 ctccctagag tccttcgtga agctttttat tcctaagagg agaaaatcag 200  
 tcaccggcga aatcgtgctg attacaggag ctgggcatgg aattgggaga 250  
 ctgactgcct atgaatttgc taaacttaaa agcaagctgg ttctctggga 300  
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 tctaatagtg ccagaatttt aatgtttgaa cttctgtttt ttctaattat 1100  
 cccattttct tcaatatcat ttttgaggct ttggcagtct tcatttacta 1150  
 ccacttggtc tttagccaaa agctgattac atatgatata aacagagaaa 1200  
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 tttattaaaa taatttccaa gattatttgt gggtcacctg aaggctttgc 1300  
 aaaatttgta ccataaccgt ttatttaaca tatattttta tttttgattg 1350  
 cacttaaaatt ttgtataatt tgtgtttctt tttctgttct acataaaatc 1400  
 agaaacttca agctctctaa ataaaatgaa ggactatata tagtggtatt 1450  
 tcacaatgaa tatcatgaac tctcaatggg taggtttcat cctaccatt 1500

[illegible]

<211> 300

<213> Homo Sapien

Met Lys Phe Leu Leu Asp Ile Leu Leu Leu Leu Pro Leu Leu Ile  
1 5 10 15

Val Cys Ser Leu Glu Ser Phe Val Lys Leu Phe Ile Pro Lys Arg  
20 25 30

Arg Lys Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly  
35 40 45

His Gly Ile Gly Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys  
50 55 60

Ser Lys Leu Val Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu  
65 70 75

Thr Ala Ala Lys Cys Lys Gly Leu Gly Ala Lys Val His Thr Phe  
80 85 90

Val Val Asp Cys Ser Asn Arg Glu Asp Ile Tyr Ser Ser Ala Lys  
95 100 105

Lys Val Lys Ala Glu Ile Gly Asp Val Ser Ile Leu Val Asn Asn  
110 115 120

Ala Gly Val Val Tyr Thr Ser Asp Leu Phe Ala Thr Gln Asp Pro  
125 130 135

Gln Ile Glu Lys Thr Phe Glu Val Asn Val Leu Ala His Phe Trp  
140 145 150

Thr Thr Lys Ala Phe Leu Pro Ala Met Thr Lys Asn Asn His Gly  
155 160 165

His Ile Val Thr Val Ala Ser Ala Ala Gly His Val Ser Val Pro  
170 175 180

Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe  
185 190 195

32







<211> 243  
 <212> PRT  
 <213> Homo Sapien

<400> 42

Met	Arg	Pro	Leu	Leu	Val	Leu	Leu	Leu	Leu	Gly	Leu	Ala	Ala	Gly	1	5	10	15
Ser	Pro	Pro	Leu	Asp	Asp	Asn	Lys	Ile	Pro	Ser	Leu	Cys	Pro	Gly	20	25	30	
His	Pro	Gly	Leu	Pro	Gly	Thr	Pro	Gly	His	His	Gly	Ser	Gln	Gly	35	40	45	
Leu	Pro	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Ala	Pro	Gly	50	55	60	
Ala	Pro	Gly	Glu	Lys	Gly	Glu	Gly	Gly	Arg	Pro	Gly	Leu	Pro	Gly	65	70	75	
Pro	Arg	Gly	Asp	Pro	Gly	Pro	Arg	Gly	Glu	Ala	Gly	Pro	Ala	Gly	80	85	90	
Pro	Thr	Gly	Pro	Ala	Gly	Glu	Cys	Ser	Val	Pro	Pro	Arg	Ser	Ala	95	100	105	
Phe	Ser	Ala	Lys	Arg	Ser	Glu	Ser	Arg	Val	Pro	Pro	Pro	Ser	Asp	110	115	120	
Ala	Pro	Leu	Pro	Phe	Asp	Arg	Val	Leu	Val	Asn	Glu	Gln	Gly	His	125	130	135	
Tyr	Asp	Ala	Val	Thr	Gly	Lys	Phe	Thr	Cys	Gln	Val	Pro	Gly	Val	140	145	150	
Tyr	Tyr	Phe	Ala	Val	His	Ala	Thr	Val	Tyr	Arg	Ala	Ser	Leu	Gln	155	160	165	
Phe	Asp	Leu	Val	Lys	Asn	Gly	Glu	Ser	Ile	Ala	Ser	Phe	Phe	Gln	170	175	180	
Phe	Phe	Gly	Gly	Trp	Pro	Lys	Pro	Ala	Ser	Leu	Ser	Gly	Gly	Ala	185	190	195	
Met	Val	Arg	Leu	Glu	Pro	Glu	Asp	Gln	Val	Trp	Val	Gln	Val	Gly	200	205	210	
Val	Gly	Asp	Tyr	Ile	Gly	Ile	Tyr	Ala	Ser	Ile	Lys	Thr	Asp	Ser	215	220	225	
Thr	Phe	Ser	Gly	Phe	Leu	Val	Tyr	Ser	Asp	Trp	His	Ser	Ser	Pro	230	235	240	
Val Phe Ala																		

<210> 43  
 <211> 24

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 43  
 tacaggccca gtcaggacca gggg 24  
  
 <210> 44  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 44  
 agccagcctc gctctcgg 18  
  
 <210> 45  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 45  
 gtctgcatc aggtctgg 18  
  
 <210> 46  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 46  
 gaaagaggca atggattcgc 20  
  
 <210> 47  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 47  
 gattacact tgccagcaca gcac 24  
  
 <210> 48  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence



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 cagttttgcc tttgggcagc ctgacaacca cgggctggtg tggctgagtg 1350  
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<212> PRT

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Lys	Glu	Ser	Phe	Leu	Leu	Leu	Ser	Leu	His	Asn	Arg	Leu	Arg	Ser
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Ile	Pro	Thr	Pro	Ser	Leu	Ala	Ser	Gly	Leu	Trp	Arg	Thr	Leu	Gln
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Val	Gly	Trp	Asn	Met	Gln	Leu	Leu	Pro	Ala	Gly	Leu	Ala	Ser	Phe

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His	Ala	Ala	Gly	Glu 140	Cys	Ala	Arg	Asn	Ala	Thr	Cys	Thr	His	Tyr 150
Thr	Gln	Leu	Val	Trp 155	Ala	Thr	Ser	Ser	Gln	Leu	Gly	Cys	Gly	Arg 165
His	Leu	Cys	Ser	Ala 170	Gly	Gln	Thr	Ala	Ile	Glu	Ala	Phe	Val	Cys 180
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Tyr	Ile	His	His	Met 365	Ser	Pro	Thr	Gly	Gly 370	Thr	Asp	Ile	Asn	Gly 375
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Ser	Gly	Ile	Gly	Asp 395	Arg	Ser	Val	Ser	Leu 400	Ile	Val	Phe	Leu	Thr 405
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Phe Thr Lys Asp Val	Thr Val Ile Glu Gly	Glu Val Ala Thr Ile	50	55	60
Ser Cys Gln Val Asn	Lys Ser Asp Asp Ser	Val Ile Gln Leu Leu	65	70	75
Asn Pro Asn Arg Gln	Thr Ile Tyr Phe Arg	Asp Phe Arg Pro Leu	80	85	90
Lys Asp Ser Arg Phe	Gln Leu Leu Asn Phe	Ser Ser Ser Glu Leu	95	100	105
Lys Val Ser Leu Thr	Asn Val Ser Ile Ser	Asp Glu Gly Arg Tyr	110	115	120
Phe Cys Gln Leu Tyr	Thr Asp Pro Pro Gln	Glu Ser Tyr Thr Thr	125	130	135
Ile Thr Val Leu Val	Pro Pro Arg Asn Leu	Met Ile Asp Ile Gln	140	145	150
Lys Asp Thr Ala Val	Glu Gly Glu Glu Ile	Glu Val Asn Cys Thr	155	160	165
Ala Met Ala Ser Lys	Pro Ala Thr Thr Ile	Arg Trp Phe Lys Gly	170	175	180
Asn Thr Glu Leu Lys	Gly Lys Ser Glu Val	Glu Glu Trp Ser Asp	185	190	195
Met Tyr Thr Val Thr	Ser Gln Leu Met Leu	Lys Val His Lys Glu	200	205	210
Asp Asp Gly Val Pro	Val Ile Cys Gln Val	Glu His Pro Ala Val	215	220	225
Thr Gly Asn Leu Gln	Thr Gln Arg Tyr Leu	Glu Val Gln Tyr Lys	230	235	240
Pro Gln Val His Ile	Gln Met Thr Tyr Pro	Leu Gln Gly Leu Thr	245	250	255
Arg Glu Gly Asp Ala	Leu Glu Leu Thr Cys	Glu Ala Ile Gly Lys	260	265	270
Pro Gln Pro Val Met	Val Thr Trp Val Arg	Val Asp Asp Glu Met	275	280	285
Pro Gln His Ala Val	Leu Ser Gly Pro Asn	Leu Phe Ile Asn Asn	290	295	300
Leu Asn Lys Thr Asp	Asn Gly Thr Tyr Arg	Cys Glu Ala Ser Asn			

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ctgaccctgg	gcctcgagcc	ggtgagcccc	acctccctgc	gcgtggggct	1350
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cctatcgcaa	cctatcgggc	cctgataagc	ggctggtgac	gctgcgactg	1450
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ttactccgtc	tgtgtcatgc	ctttggggcc	cgggcgggtg	ccggagggcg	1550
aggaggcctg	cggggaggcc	cataaccccc	cagccgtcca	ctccaaccac	1600
gccccagtca	cccaggcccc	cgaggggcaac	ctgccgctcc	tcattgcgcc	1650
cgccctggcc	gcggtgctcc	tggccgcgct	ggctgcggtg	ggggcagcct	1700
actgtgtgcy	gcggggggcgg	gccatggcag	cagcggctca	ggacaaaggg	1750
cagggtggggc	caggggctgg	gcccctggaa	ctggaggggag	tgaaggtccc	1800
cttggagcca	ggcccgaagg	caacagaggg	cgggtggagag	gccttgccca	1850



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Ala Leu Arg Leu	Ala Gly Leu Gly Leu	Gln Gln Leu Asp Glu Gly			
	125		130		135
Leu Phe Ser Arg	Leu Arg Asn Leu His	Asp Leu Asp Val Ser Asp			
	140		145		150
Asn Gln Leu Glu	Arg Val Pro Pro Val	Ile Arg Gly Leu Arg Gly			
	155		160		165
Leu Thr Arg Leu	Arg Leu Ala Gly Asn Thr	Arg Ile Ala Gln Leu			
	170		175		180
Arg Pro Glu Asp	Leu Ala Gly Leu Ala	Ala Leu Gln Glu Leu Asp			
	185		190		195
Val Ser Asn Leu	Ser Leu Gln Ala Leu	Pro Gly Asp Leu Ser Gly			
	200		205		210
Leu Phe Pro Arg	Leu Arg Leu Leu Ala	Ala Ala Arg Asn Pro Phe			
	215		220		225
Asn Cys Val Cys	Pro Leu Ser Trp Phe	Gly Pro Trp Val Arg Glu			
	230		235		240
Ser His Val Thr	Leu Ala Ser Pro Glu	Glu Thr Arg Cys His Phe			
	245		250		255
Pro Pro Lys Asn	Ala Gly Arg Leu Leu	Leu Glu Leu Asp Tyr Ala			
	260		265		270
Asp Phe Gly Cys	Pro Ala Thr Thr Thr	Thr Ala Thr Val Pro Thr			
	275		280		285
Thr Arg Pro Val	Val Arg Glu Pro Thr	Ala Leu Ser Ser Ser Leu			
	290		295		300
Ala Pro Thr Trp	Leu Ser Pro Thr Ala	Pro Ala Thr Glu Ala Pro			
	305		310		315
Ser Pro Pro Ser	Thr Ala Pro Pro Thr	Val Gly Pro Val Pro Gln			
	320		325		330
Pro Gln Asp Cys	Pro Pro Ser Thr Cys	Leu Asn Gly Gly Thr Cys			
	335		340		345
His Leu Gly Thr	Arg His His Leu Ala	Cys Leu Cys Pro Glu Gly			
	350		355		360
Phe Thr Gly Leu	Tyr Cys Glu Ser Gln	Met Gly Gln Gly Thr Arg			
	365		370		375
Pro Ser Pro Thr	Pro Val Thr Pro Arg	Pro Pro Arg Ser Leu Thr			
	380		385		390
Leu Gly Ile Glu	Pro Val Ser Pro Thr	Ser Leu Arg Val Gly Leu			
	395		400		405

Gln Arg Tyr Leu	Gln Gly Ser Ser Val	Gln Leu Arg Ser Leu Arg
410		420
Leu Thr Tyr Arg	Asn Leu Ser Gly Pro	Asp Lys Arg Leu Val Thr
425		435
Leu Arg Leu Pro	Ala Ser Leu Ala Glu	Tyr Thr Val Thr Gln Leu
440		450
Arg Pro Asn Ala	Thr Tyr Ser Val Cys	Val Met Pro Leu Gly Pro
455		465
Gly Arg Val Pro	Glu Gly Glu Glu Ala	Cys Gly Glu Ala His Thr
470		480
Pro Pro Ala Val	His Ser Asn His Ala	Pro Val Thr Gln Ala Arg
485		495
Glu Gly Asn Leu	Pro Leu Leu Ile Ala	Pro Ala Leu Ala Ala Val
500		510
Leu Leu Ala Ala	Leu Ala Ala Val Gly	Ala Ala Tyr Cys Val Arg
515		525
Arg Gly Arg Ala	Met Ala Ala Ala Ala	Gln Asp Lys Gly Gln Val
530		540
Gly Pro Gly Ala	Gly Pro Leu Glu Leu	Glu Gly Val Lys Val Pro
545		555
Leu Glu Pro Gly	Pro Lys Ala Thr Glu	Gly Gly Gly Glu Ala Leu
560		570
Pro Ser Gly Ser	Glu Cys Glu Val Pro	Leu Met Gly Phe Pro Gly
575		585
Pro Gly Leu Gln	Ser Pro Leu His Ala	Lys Pro Tyr Ile
590		595

<210> 70

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 70

ccctccactg cccaccgac tg 22

<210> 71

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe











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 ctgatccaga ccccttctgc cccactgcc ctcattccagg cctctgacca 2250  
 gtagcctgag aggggctttt tctaggcttc agagcagggg agagctggaa 2300  
 ggggctagaa agctcccgc tgtctgtttc tcaggctcct gtgagcctca 2350  
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<210> 78  
 <211> 281  
 <212> PRT  
 <213> Homo Sapien

<400> 78  
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 Leu Ala Phe Ala Ser Gly Leu Val Leu Ser Arg Val Pro His Val  
 20 25 30  
 Gln Gly Glu Gln Gln Glu Trp Glu Gly Thr Glu Glu Leu Pro Ser  
 35 40 45  
 Pro Pro Asp His Ala Glu Arg Ala Glu Glu Gln His Glu Lys Tyr  
 50 55 60  
 Arg Pro Ser Gln Asp Gln Gly Leu Pro Ala Ser Arg Cys Leu Arg  
 65 70 75  
 Cys Cys Asp Pro Gly Thr Ser Met Tyr Pro Ala Thr Ala Val Pro  
 80 85 90  
 Gln Ile Asn Ile Thr Ile Leu Lys Gly Glu Lys Gly Asp Arg Gly  
 95 100 105  
 Asp Arg Gly Leu Gln Gly Lys Tyr Gly Lys Thr Gly Ser Ala Gly

110	115	120
Ala Arg Gly His Thr Gly Pro Lys Gly Gln Lys Gly Ser Met Gly		
125	130	135
Ala Pro Gly Glu Arg Cys Lys Ser His Tyr Ala Ala Phe Ser Val		
140	145	150
Gly Arg Lys Lys Pro Met His Ser Asn His Tyr Tyr Gln Thr Val		
155	160	165
Ile Phe Asp Thr Glu Phe Val Asn Leu Tyr Asp His Phe Asn Met		
170	175	180
Phe Thr Gly Lys Phe Tyr Cys Tyr Val Pro Gly Leu Tyr Phe Phe		
185	190	195
Ser Leu Asn Val His Thr Trp Asn Gln Lys Glu Thr Tyr Leu His		
200	205	210
Ile Met Lys Asn Glu Glu Glu Val Val Ile Leu Phe Ala Gln Val		
215	220	225
Gly Asp Arg Ser Ile Met Gln Ser Gln Ser Leu Met Leu Glu Leu		
230	235	240
Arg Glu Gln Asp Gln Val Trp Val Arg Leu Tyr Lys Gly Glu Arg		
245	250	255
Glu Asn Ala Ile Phe Ser Glu Glu Leu Asp Thr Tyr Ile Thr Phe		
260	265	270
Ser Gly Tyr Leu Val Lys His Ala Thr Glu Pro		
275	280	

<210> 79  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 79  
 tacaggccca gtcaggacca gggg 24

<210> 80  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 80  
 ctgaagaagt agaggccggg cacg 24

<210> 81

<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide probe

<400> 81  
cccgggtgctt gcgctgctgt gaccccggtg cctccatgta cccgg 45

<210> 82  
<211> 2284  
<212> DNA  
<213> Homo Sapien

<400> 82  
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tccttccgcg gggcgcgaca gagctgtcct cgcacctgga tggcagcagg 100  
ggcgccgggg tcctctcgac gccagagaga aatctcatca tctgtgcagc 150  
cttcttaaag caaactaaga ccagagggag gattatcctt gacctttgaa 200  
gaccaaaact aaactgaaat ttaaaatgtt cttcggggga gaaggagct 250  
tgacttacac tttggtaata atttgcttcc tgacactaag gctgtctgct 300  
agtcagaatt gcctcaaaaa gagtctagaa gatgttgtca ttgacatcca 350  
gtcatctctt tctaaggga tcaaggcaa tgagcccgta tatacttcaa 400  
ctcaagaaga ctgcattaat tcttgctgtt caacaaaaaa catatcaggg 450  
gacaaagcat gtaacttgat gatcttcgac actcgaaaaa cagctagaca 500  
acccaactgc tacctatctt tctgtcccaa cgaggaagcc tgtccattga 550  
aaccagcaaa aggacttatg agttacagga taattacaga ttttccatct 600  
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tctcagcctc ccacgaccct catttctaca gtttttacac gggctgcggc 1100  
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 agcaggaggt tgtattttga agacaggaaa atgccccctt ctgctttcct 1650  
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 ggtcaggctg gtctcaaact cctgacctag tgatccacc tcctoggcct 1900  
 cccaaagtgc tgggattaca ggcatgagcc accacagctg gcccccttct 1950  
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 aaagtaataa agtataattg ccatataaat ttcaaaattc aactggcttt 2100  
 tatgcaaaga aacaggttag gacatctagg ttccaattca ttcacattct 2150  
 tggttccaga taaaatcaac tgtttatatc aatttcta at ggatttgctt 2200  
 ttctttttat atggattcct ttaaaactta ttccagatgt agttccttcc 2250  
 aattaaatat ttgaataaat cttttgttac tcaa 2284

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 <211> 431  
 <212> PRT  
 <213> Homo Sapien

<400> 83  
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				20					25					30
Lys	Lys	Ser	Leu	Glu	Asp	Val	Val	Ile	Asp	Ile	Gln	Ser	Ser	Leu
				35					40					45
Ser	Lys	Gly	Ile	Arg	Gly	Asn	Glu	Pro	Val	Tyr	Thr	Ser	Thr	Gln
				50					55					60
Glu	Asp	Cys	Ile	Asn	Ser	Cys	Cys	Ser	Thr	Lys	Asn	Ile	Ser	Gly
				65					70					75
Asp	Lys	Ala	Cys	Asn	Leu	Met	Ile	Phe	Asp	Thr	Arg	Lys	Thr	Ala
				80					85					90
Arg	Gln	Pro	Asn	Cys	Tyr	Leu	Phe	Phe	Cys	Pro	Asn	Glu	Glu	Ala
				95					100					105
Cys	Pro	Leu	Lys	Pro	Ala	Lys	Gly	Leu	Met	Ser	Tyr	Arg	Ile	Ile
				110					115					120
Thr	Asp	Phe	Pro	Ser	Leu	Thr	Arg	Asn	Leu	Pro	Ser	Gln	Glu	Leu
				125					130					135
Pro	Gln	Glu	Asp	Ser	Leu	Leu	His	Gly	Gln	Phe	Ser	Gln	Ala	Val
				140					145					150
Thr	Pro	Leu	Ala	His	His	His	Thr	Asp	Tyr	Ser	Lys	Pro	Thr	Asp
				155					160					165
Ile	Ser	Trp	Arg	Asp	Thr	Leu	Ser	Gln	Lys	Phe	Gly	Ser	Ser	Asp
				170					175					180
His	Leu	Glu	Lys	Leu	Phe	Lys	Met	Asp	Glu	Ala	Ser	Ala	Gln	Leu
				185					190					195
Leu	Ala	Tyr	Lys	Glu	Lys	Gly	His	Ser	Gln	Ser	Ser	Gln	Phe	Ser
				200					205					210
Ser	Asp	Gln	Glu	Ile	Ala	His	Leu	Leu	Pro	Glu	Asn	Val	Ser	Ala
				215					220					225
Leu	Pro	Ala	Thr	Val	Ala	Val	Ala	Ser	Pro	His	Thr	Thr	Ser	Ala
				230					235					240
Thr	Pro	Lys	Pro	Ala	Thr	Leu	Leu	Pro	Thr	Asn	Ala	Ser	Val	Thr
				245					250					255
Pro	Ser	Gly	Thr	Ser	Gln	Pro	Gln	Leu	Ala	Thr	Thr	Ala	Pro	Pro
				260					265					270
Val	Thr	Thr	Val	Thr	Ser	Gln	Pro	Pro	Thr	Thr	Leu	Ile	Ser	Thr
				275					280					285
Val	Phe	Thr	Arg	Ala	Ala	Ala	Thr	Leu	Gln	Ala	Met	Ala	Thr	Thr
				290					295					300
Ala	Val	Leu	Thr	Thr	Thr	Phe	Gln	Ala	Pro	Thr	Asp	Ser	Lys	Gly

305	310	315
Ser Leu Glu Thr Ile Pro Phe Thr Glu Ile Ser Asn Leu Thr Leu		
320	325	330
Asn Thr Gly Asn Val Tyr Asn Pro Thr Ala Leu Ser Met Ser Asn		
335	340	345
Val Glu Ser Ser Thr Met Asn Lys Thr Ala Ser Trp Glu Gly Arg		
350	355	360
Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly Ser Val Pro Glu Asn		
365	370	375
Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu Ile Gly Ser Leu		
380	385	390
Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val Leu Leu Gly		
395	400	405
Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser Arg Leu		
410	415	420
Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile		
425	430	

<210> 84  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 84  
 agggaggatt atccttgacc tttgaagacc 30

<210> 85  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 85  
 gaagcaagtg cccagctc 18

<210> 86  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide probe

<400> 86  
 cgggtccctg ctctttgg 18

[illegible]

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<210> 88
<211> 18
<212> DNA
<213> Artificial Sequence
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<210> 89
<211> 49
<212> DNA
<213> Artificial Sequence
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<210> 90
<211> 957
<212> DNA
<213> Homo Sapien
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64





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			170						175					180
Asn	Met	Lys	Phe	Arg	Ser	Ser	Trp	Val	Phe	Ile	Ala	Ala	Lys	Gly
			185						190					195
Leu	Glu	Leu	Pro	Ser	Glu	Ile	Gln	Arg	Glu	Lys	Ile	Asn	His	Ser
			200						205					210
Asp	Ala	Lys	Asn	Asn	Arg	Tyr	Ser	Gly	Trp	Pro	Ala	Glu	Ile	Gln
			215						220					225
Ile	Glu	Gly	Cys	Ile	Pro	Lys	Glu	Arg	Ser					
			230						235					

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<400> 92  
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<210> 93  
 <211> 18  
 <212> DNA  
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<400> 93  
 aggcttgga ctccttc 18

<210> 94  
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<400> 94  
 aagattcttg agcgattcca gctg 24

<210> 95  
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 <212> DNA  
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<400> 95  
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<210> 96  
 <211> 21  
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 <400> 96  
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 <210> 97  
 <211> 25  
 <212> DNA  
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 <400> 97  
 ccaacctcag cttccgctc tacga 25  
  
 <210> 98  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Synthetic oligonucleotide probe  
  
 <400> 98  
 catccaggct cgccactg 18  
  
 <210> 99  
 <211> 20  
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 <400> 99  
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 <210> 100  
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 <400> 100  
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 <210> 101  
 <211> 19  
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<213> Artificial Sequence

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<400> 101  
gggcagaaat ccagccact 19

<210> 102  
<211> 18  
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<223> Synthetic oligonucleotide probe

<400> 102  
cccttcgcct gcttttga 18

<210> 103  
<211> 27  
<212> DNA  
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<400> 103  
gccatctaatt tgaagcccat cttccca 27

<210> 104  
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<212> DNA  
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<400> 104  
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<210> 105  
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<400> 105  
cctcggtctc ctcactctgtg a 21

<210> 106  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

Table 1. Demographic characteristics of the study population	
Age (years)	65.8 ± 1.2
Gender (male/female)	10/10
Education (years)	12.5 ± 0.5
Occupation (white/blue)	10/0
Marital status (married/divorced/widowed)	10/0/0
Income (USD/month)	1,200 ± 100
Smoking status (smoker/nonsmoker)	5/5
Alcohol consumption (yes/no)	2/8
Comorbidities (hypertension/diabetes/cholesterol)	8/3/5
Medication (antihypertensive/antidiabetic/anticholesterol)	8/3/5
Physical activity (yes/no)	5/5
Stress level (low/moderate/high)	5/5/0
Sleep quality (good/poor)	5/5
Depression score (mean ± SD)	15.2 ± 2.1
Anxiety score (mean ± SD)	18.5 ± 2.5
Life satisfaction score (mean ± SD)	22.3 ± 2.8
Overall health status (good/fair/poor)	5/5/0

tggcccagct gacgagccct 20

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

ctcataggca ctcggttctg g 21

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

tggtcccag cttggaaga 19

<210> 109

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 109

cagctcttgg ctgtctccag tatgtaccca 30

<210> 110

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 110

gatgcctctg ttcctgcaca t 21

<210> 111

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 111

ggattctaatt acgactcact atagggctgc ccgcaacccc ttcaactg 48

<210> 112

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

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<210> 113

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<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

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ggattctaatt acgactcact atagggccgc cccgccacct cct 43

<210> 114

<211> 48

<212> DNA

<213> Artificial Sequence

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<223> Synthetic oligonucleotide probe

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<210> 115

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 115

ggattctaatt acgactcact atagggccca aggaaggcag gagactct 48

<210> 116

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide probe

<400> 116

ctatgaaatt aaccctcact aaagggacta ggggggtggga atgaaaag 48

<210> 117

